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Claim 40 A stringed musical instrument comprising: an elongated neck,

a body attached to one end of said neck,

a tremolo pivotably mounted on said body,

a plurality of strings with a first end and a second end,

on said neck, a first critical point on at least one of said strings,

said tremolo further comprising:

bridge elements forming a support and a second critical point for at least one of said strings,

a string anchor engaging said second end of said at least one of said strings,

a base plate,

a spring, and

counter springs with a first end and a second end, said first end of said counter springs connected to said body and said second end of said counter springs secured to said spring for counter balancing the tension of said at least one of said strings,

wherein said base plate and said spring comprise:

a unitary component formed from a single folded or bent plate material with a base plate portion and a spring portion so that said unitary component is connected directly to the springs.

Claim 41 An apparatus of claim 40 wherein said string anchor is located in said portion.

Claim 42 An apparatus of claim 41 wherein said string anchor comprises at least one string passageway within said spring portion.

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a plurality of strings extending from said body to said neck, said strings having a

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a separate mount of said strings on said base plate to raise and adjust tension of said strings from an untensioned condition to a proper playing pitch,

said separate includes a string tension on opposite side of said bridge element from said first critical point disposed in a variably spaced relation to said second critical point over which each of said strings extends, said string tension has a string holder element, said string holder element has a first portion closer to said second critical point and a second portion more remote from said second critical point, said string holder element includes a restricted interior portion located closest said first end, said string holder element displaceable between a first limiting position closest said second critical point and a second limiting position more remote said second critical point, said first end of said string holder element in spaced relation from said second critical point in and between said first and second limiting positions,

said restricted portion of string holder element holds said string anchoring portion wherein said string anchoring portion is located a critical distance from said second critical point such that said at least one string is rendered substantially inextensible between said second critical point and said string anchor in said first limiting position.

Claim 60 A stringed musical instrument comprising:

- a body,
- a neck having a nut,
- a least one string connected to the neck, said neck forming at least one first critical point for each of said at least one string,
- a fulcrum tremolo having a base plate, said fulcrum tremolo forming at least one second critical point for each of said at least one string, the base plate having a first end closer to said first critical point, and a second end further from said first critical point, the fulcrum tremolo being connected to the at least one string.
- at least one rod, having a portion forming a pivot axis transverse the axis of the at least one string and connected to the fulcrum tremolo,
- the fulcrum tremolo having at least one bearing housing and at least one ring bearing located within said at least one bearing housing, at least one rod

- 1	supporting said at least on ring bearing and therefore said at least one rod
1	supporting at least bearing housing,
2	an adjustment screw associated with each of said at least one bearing housing,
3	each adjustment screw adjustably supporting each of said at least one
4	bearing housing, therefore supporting the fulcrum tremolo on the body,
	each said adjustment screw having a vertical axis, and
5	each said adjustment screw being substantially aligned to said pivot axis so that
6	said pivot axis intersects said vertical axis of each said adjustment screw.
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8	Claim 61 A stringed musical instrument of claim 60 wherein said at least one rod furthe
9	comprises two portions extending outwardly from each other,
7	wherein at least one bearing housing further comprises at least two bearing
10	housings,
11	wherein said at least one ring bearing further comprises at least two ring bearings
12	in each of said at least two bearing housings,
13	wherein each of said two portions support said at least two ring bearings of each
,,	of said at least two bearing housings,
14	wherein each of said adjustment screws adjustably mounting each of said at least
15	two bearing housings,
16	wherein one of said at least two ring bearings in each of said at least two bearing
17	housings is located adjacent to said at least one second critical point
	relative to each said adjustment screw and the other of said at least two
18	ring bearings adjacent said adjustment screw relative to said second
19	critical point.
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21	Claim 62 A stringed musical instrument comprising:
	a body,
22	a neck having a nut; a least one string connected to the neck, said neck forming at least one first
23	critical point for each of said at least one string;
24	entical point for each of said at least one suring,
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- a fulcrum tremolo having a base plate, said fulcrum tremolo forming at least one second critical point for each of said at least one string, the base plate having a first end closer to said fist critical point, and a second end further from said first critical point, the fulcrum tremolo being connected to the at least one string;
- at least one rod, having a portion forming a pivot axis transverse the axis of the at least one string and connected to the fulcrum tremolo;
- said fulcrum tremolo having at least one bearing housing and at least one ring bearing located within at least one bearing housing, at least one rod being supported by the at least on ring bearing; and
- an adjustment screw adjustably supporting the at least one bearing housing and therefore supporting the fulcrum tremolo on the body, the adjustment screw having a vertical axis, the adjustment screw being positioned further from the nut than the pivot axis so that the pivot axis is between the vertical axis of the adjustment screw and the first critical point.
- Claim 63 A stringed musical instrument of claim 62 wherein said at least one rod further comprises at least two rods,
 - wherein at least one bearing housing further comprises at least two bearing housings,
 - wherein said at least one ring bearing further comprises at least two ring bearings in each of said at least two bearing housings,
 - wherein each of said two portions support said at least two ring bearings of each of said at least two bearing housings,
 - wherein each of said adjustment screws adjustably mounting each of said at least two bearings,
 - wherein one of said at least two ring bearings in each of said at least two bearing housings is located adjacent to said at least one second critical point relative to each said adjustment screw and the other of said at least two ring bearings adjacent said adjustment screw relative to said second critical point.

Application: 09/830,279